

**Notice of Allowability**

Application No.

09/303,587

Examiner

Louis K. Huynh

Applicant(s)

VILJANMAA ET AL.

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the RCE filed 09/08/2005.
2. ☒ The allowed claim(s) is/are 1,4-6,8-13 and 18.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some\* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date \_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_

**DETAILED ACTION**

***Continued Examination Under 37 CFR 1.114***

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 09/08/2005 has been entered.

**EXAMINER'S AMENDMENT**

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

3. The application has been amended as follows:

In the specification, the CROSS REFERENCE statement has been replaced as follows:

--This application is a continuation of U.S. Patent Application Serial No. 09/156,232 filed September 18, 1998, now abandoned, which in turn is a continuation-in-part of U.S. Patent Application Serial No. 09/074,723 filed May 7, 1998, now abandoned, which claims domestic priority of U.S. Provisional Patent Application Serial No. 60/045,871 filed May 7, 1997.--

***Reasons for Allowance***

4. The following is an examiner's statement of reasons for allowance:

- The prior art of record fails to disclose and/or teach an improved method for computing and regulating the distribution of linear load in a multi-nip calender as claimed in claim 1; specifically, the prior art of record fails to disclose and/or teach a method that includes the steps of: assigning a value to at least one variable representing a physical property affecting the bending of each of the two intermediate rolls, such as bending rigidity, mass, shape, and material, computerized modeling using all essential elements of the multi-nip calender including all physical properties of the set of rolls and selecting a type and a position of each roll in the set of rolls, determining of regulation parameters based on the computerized modeling, and regulating of the multi-nip calender assembled based on the computerized model assembled with the type and the position of each roll in the set of rolls.
- The prior art of record fails to disclose and/or teach an arrangement for computing and regulating the distribution of linear load in a multi-nip calender as claimed in claim 11; specifically, the prior art of record fails to disclose and/or teach an arrangement that includes an automation system and a computing unit for assigning at least one value to a variable representing a physical property affecting the bending of each of at least two intermediate rolls and for adjusting at least one of the first force, the second force, at least one of the support forces and at least one of weight forces exerted on each of said at least two intermediate rolls

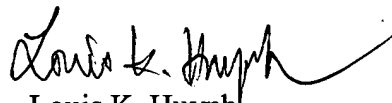
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following to place the set of rolls in a state of equilibrium and a predetermined state of deflection; wherein the computing unit defines a computerized model using all essential elements of the multi-nip calender including all physical properties of the set of rolls and a type and a position of each roll in the set of rolls is selected , and the automation system regulates the multi-nip calender based on the computerized model assembled with the type and the position of each roll in the set of rolls.

5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."
6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Louis K. Huynh whose telephone number is 571-272-4462. The examiner can normally be reached on M-F from 9:30AM to 5:00PM.
7. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rinaldi I. Rada can be reached on 571-272-4467. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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8. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Louis K. Huynh  
Primary Examiner  
Art Unit 3721

October 28, 2005